

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: LUMARK

Report Number: P970900

Luminaire Tested: **NAV-SB6C-735-U-T3**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P970900
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-5)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB6C-735-U-T3
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(6) 70 CRI, 3500K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 46581.1 lumens
Efficiency: N/A
Efficacy: 154.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B4 - U0 - G5

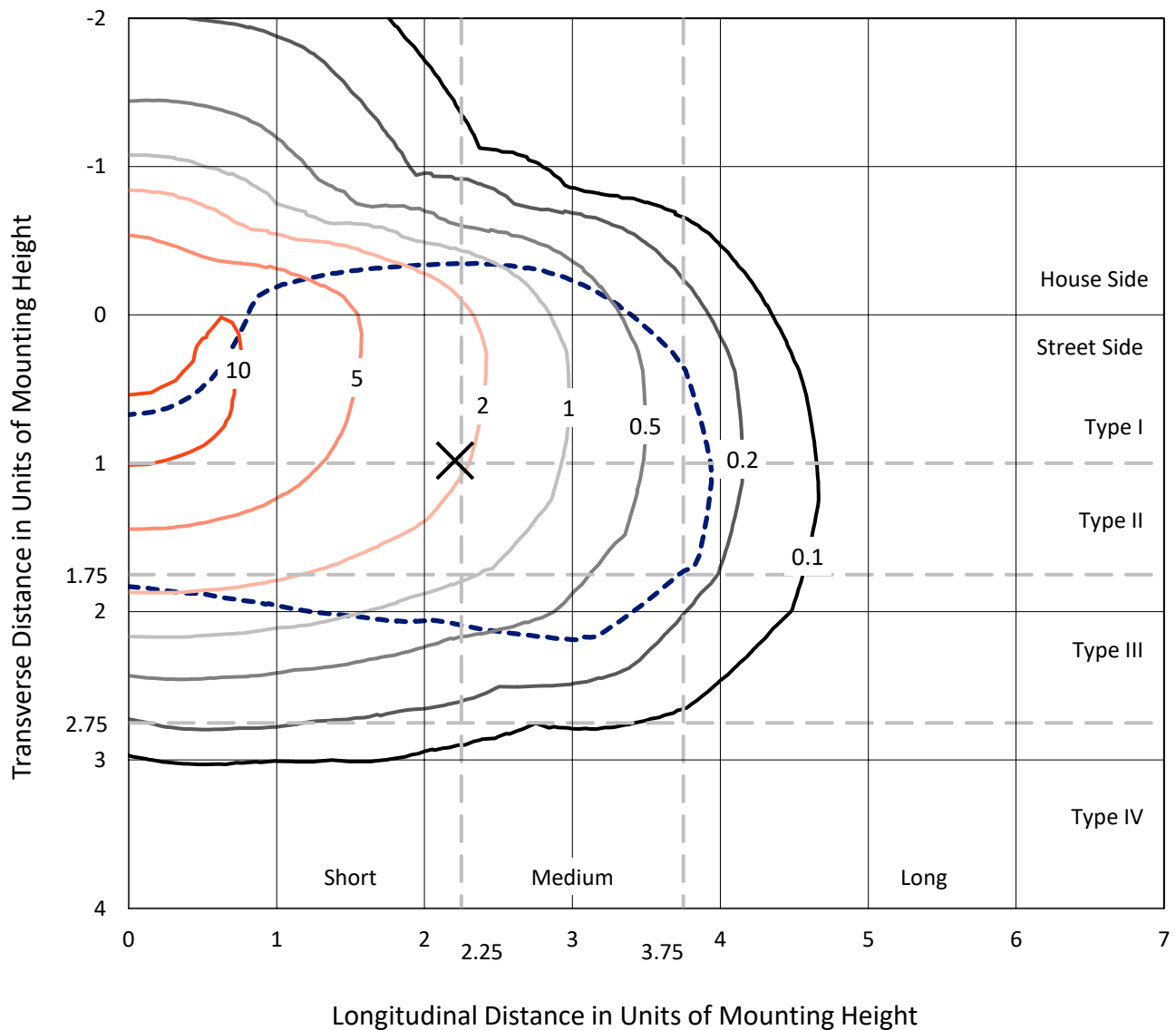
Input Watts (W): 300.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

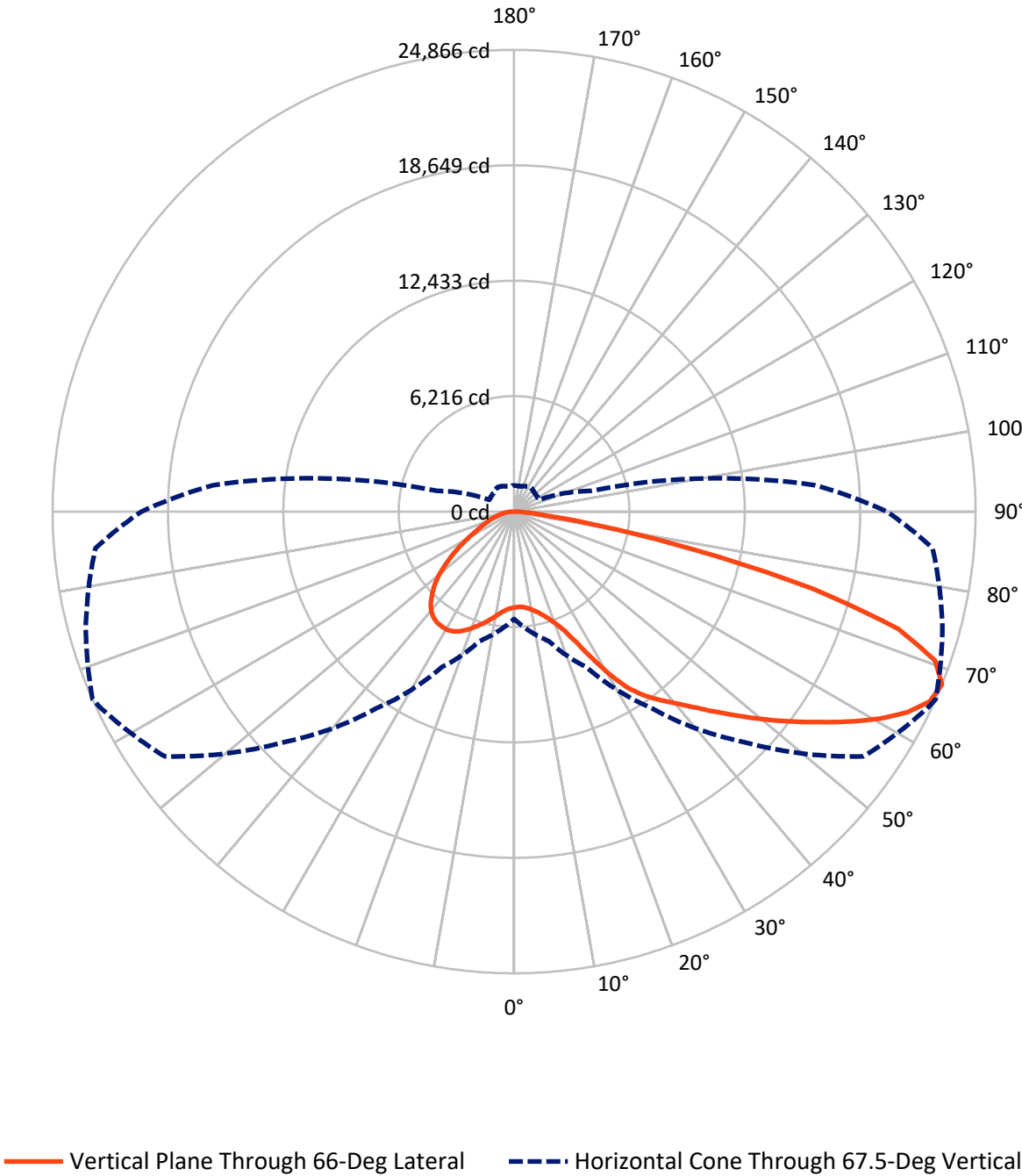
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.7 fc
Type III - Short - N/A

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Luminous Intensity Polar Plot



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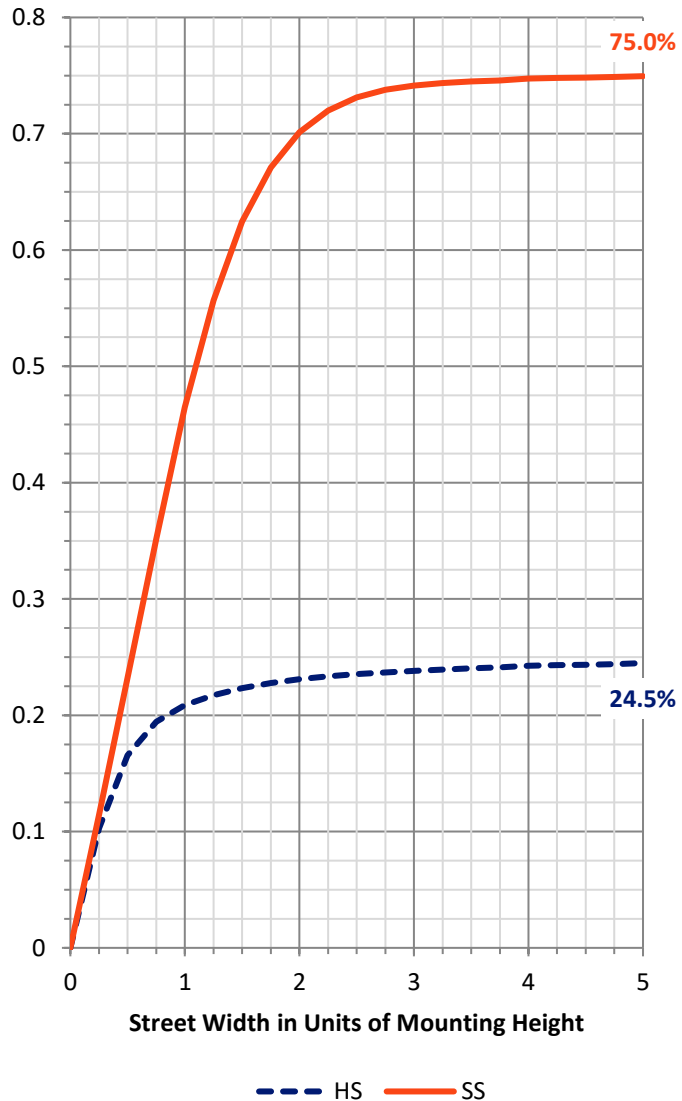
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	11582.3	0.0	11582.3
	% Fixture	24.9	0.0	24.9
Street Side	Lumens	34998.9	0.0	34998.9
	% Fixture	75.1	0.0	75.1
Total	Lumens	46581.1	0.0	46581.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	512.2	1.1
10°-20°	1692.4	3.6
20°-30°	3261.9	7.0
30°-40°	5719.4	12.3
40°-50°	8502.8	18.3
50°-60°	10778.1	23.1
60°-70°	10546.1	22.6
70°-80°	5030.6	10.8
80°-90°	537.6	1.2
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	46581.1	100.0
0°-180°	46581.1	100.0

Coefficient of Utilization



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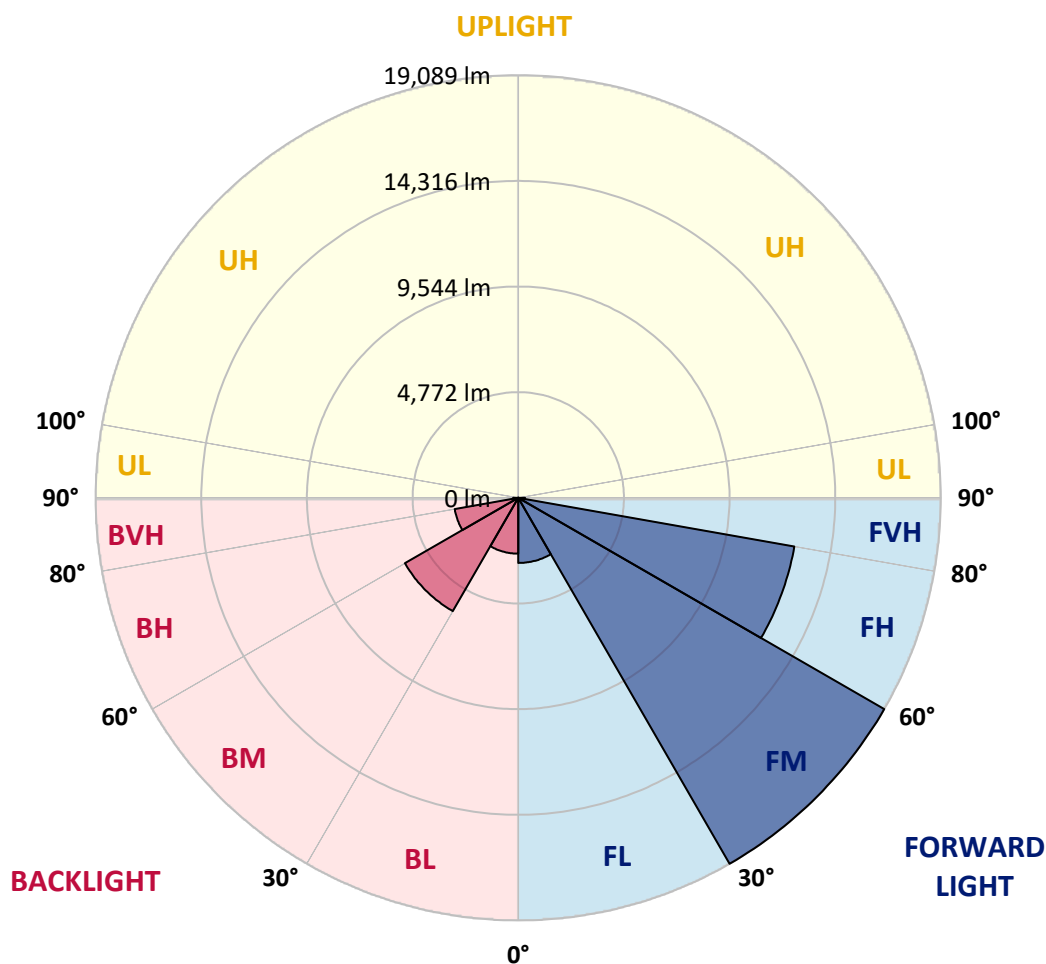
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2943.5	6.3			
FM	(30°-60°)	19088.6	41.0			
FH	(60°-80°)	12662.0	27.2			G5
FVH	(80°-90°)	304.8	0.7			G3/500
BL	(0°-30°)	2523.0	5.4	B4/5000		
BM	(30°-60°)	5911.7	12.7	B4/8500		
BH	(60°-80°)	2914.7	6.3	B4/5000		G4/5000
BVH	(80°-90°)	232.8	0.5			G3/500
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G5

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	5166.5	5166.5	5166.5	5166.5	5166.5	5166.5	5166.5	5166.5	5166.5	5166.5	5166.5
2.5°	5112.6	5142.0	5134.6	5122.4	5120.0	5124.9	5132.2	5139.6	5137.1	5149.3	5168.9
5°	5097.9	5127.3	5124.9	5124.9	5134.6	5154.2	5166.5	5178.7	5166.5	5181.2	5208.0
7.5°	5107.7	5129.7	5139.6	5149.3	5173.8	5210.5	5239.9	5266.8	5252.1	5269.2	5303.6
10°	5232.5	5249.6	5259.5	5259.5	5276.6	5318.2	5347.5	5396.5	5384.3	5411.2	5455.3
12.5°	5460.2	5477.3	5477.3	5467.5	5479.8	5506.6	5516.4	5570.3	5548.2	5592.3	5636.4
15°	5739.2	5773.4	5746.5	5729.3	5734.3	5761.2	5758.8	5800.4	5778.3	5815.0	5854.2
17.5°	6047.5	6091.6	6047.5	6045.0	6035.3	6064.6	6067.1	6103.8	6064.6	6091.6	6118.5
20°	6412.2	6473.4	6436.7	6448.9	6426.9	6439.2	6451.3	6505.2	6444.0	6463.5	6456.3
22.5°	6926.1	6999.5	6960.4	7006.9	6992.2	6982.4	6979.9	7075.5	6979.9	6987.3	6916.4
25°	7675.1	7763.1	7694.7	7758.2	7758.2	7790.1	7826.8	7949.2	7790.1	7743.6	7560.0
27.5°	8781.3	8869.4	8734.7	8773.9	8761.7	8840.0	8800.9	9104.4	8933.0	8857.1	8487.6
30°	10112.6	10269.3	10014.8	10004.9	9992.7	10117.6	10173.8	10374.5	10200.8	10124.8	9679.5
32.5°	11551.7	11715.7	11412.2	11324.1	11277.7	11353.5	11307.0	11468.5	11348.6	11231.1	10680.5
35°	13074.0	13235.5	12946.8	12775.4	12589.5	12430.4	12263.9	12305.5	12193.0	12014.3	11444.0
37.5°	14513.1	14809.2	14503.3	14319.8	13977.1	13666.3	13201.3	13008.0	12902.7	12738.7	12163.6
40°	15979.0	16148.0	15915.5	15758.9	15386.8	14899.8	14155.8	13747.1	13605.1	13446.1	12959.0
42.5°	17058.4	17219.9	17095.1	16987.4	16696.1	16130.8	15169.0	14657.5	14451.9	14273.2	13859.6
45°	17914.9	18034.9	17956.6	17995.7	17870.9	17322.7	16218.9	15634.0	15421.0	15203.2	14877.8
47.5°	18260.1	18387.3	18512.1	18744.7	18957.6	18553.7	17347.2	16691.3	16466.1	16243.4	15922.8
50°	18220.9	18350.6	18712.8	19207.2	19868.0	19733.4	18536.6	17817.1	17609.1	17354.5	17058.4
52.5°	17907.7	18054.5	18519.5	19341.9	20394.2	20617.0	19748.1	18979.6	18783.8	18480.3	18184.2
55°	17085.3	17173.4	17870.9	19035.9	20519.0	21233.7	20935.1	20218.0	20022.1	19598.8	19275.7
57.5°	15560.5	15687.8	16703.5	18211.1	20205.7	21652.2	21977.6	21520.0	21331.6	20722.1	20384.4
60°	13570.8	13774.0	14936.5	16825.9	19407.9	21649.7	22924.8	22800.0	22643.4	21828.4	21475.9
62.5°	11319.2	11554.2	12672.7	14867.9	18012.8	21035.4	23517.1	23871.9	23791.2	22848.9	22398.6
65°	8693.1	8854.7	9968.2	12334.8	15842.0	19716.3	23585.6	24603.7	24618.4	23624.7	22880.8
67.5°	5788.1	6253.1	7219.8	9256.1	12934.5	17560.1	22983.6	24723.6	24865.6	23891.5	22638.5
70°	2824.3	3436.1	4383.3	6015.7	9256.1	14253.6	21409.9	23739.8	24055.5	23113.2	21194.4
72.5°	1172.3	1370.5	1886.9	2968.7	5313.3	9618.3	18247.8	21072.2	21657.0	20479.8	17819.5
75°	790.5	856.6	1079.3	1522.3	2420.4	4743.1	13159.7	15712.3	16654.6	15467.6	12643.3
77.5°	609.4	651.0	785.7	1064.7	1439.1	1794.0	7043.6	9468.9	9956.0	9216.9	6578.7
80°	479.7	511.5	587.3	775.8	1020.6	959.4	2400.9	4290.3	4571.7	3835.0	2114.6
82.5°	416.0	428.2	421.0	526.2	677.9	560.5	788.0	1583.4	1747.4	1267.7	690.1
85°	301.0	335.3	349.9	325.5	359.8	283.9	323.1	560.5	616.7	550.6	389.1
87.5°	122.4	181.1	222.7	210.4	132.1	80.8	100.3	164.0	188.5	205.6	127.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	5166.5	5166.5	5166.5	5166.5	5166.5	5166.5	5166.5	5166.5	5166.5	5166.5	5166.5
2.5°	5171.3	5188.4	5200.7	5215.4	5225.2	5239.9	5269.2	5286.3	5288.8	5301.1	5298.6
5°	5217.9	5242.4	5269.2	5308.4	5352.4	5389.1	5445.4	5484.7	5499.3	5511.5	5509.1
7.5°	5318.2	5352.4	5401.4	5469.9	5533.6	5582.6	5651.0	5697.6	5744.1	5761.2	5763.7
10°	5467.5	5516.4	5587.4	5680.4	5748.9	5812.6	5883.5	5922.8	5969.2	5988.8	5998.6
12.5°	5653.5	5704.8	5797.9	5927.6	5991.2	6035.3	6059.8	6050.0	6059.8	6076.9	6081.8
15°	5866.4	5922.8	6027.9	6167.4	6211.5	6172.3	6118.5	6069.5	6062.3	6067.1	6084.2
17.5°	6118.5	6160.1	6282.4	6400.0	6368.1	6206.6	6089.1	6010.8	5971.6	5959.5	5976.6
20°	6470.9	6470.9	6571.3	6644.7	6431.8	6157.7	5974.1	5846.8	5766.0	5731.8	5724.4
22.5°	6899.2	6860.0	6923.7	6872.3	6419.6	6020.6	5766.0	5545.8	5423.5	5374.5	5367.1
25°	7442.5	7396.1	7378.9	7060.7	6331.4	5802.8	5389.1	5122.4	5014.7	4987.8	4992.7
27.5°	8262.4	8145.0	7922.2	7163.5	6169.9	5460.2	4948.6	4701.5	4640.3	4642.7	4650.0
30°	9353.9	9119.0	8573.2	7180.6	5905.5	4975.6	4498.3	4322.1	4292.7	4305.0	4346.6
32.5°	10364.7	10142.1	9238.9	7102.3	5499.3	4500.8	4094.5	3977.0	3932.9	3947.7	3967.3
35°	11157.7	11096.5	9855.7	6992.2	5000.1	4055.3	3732.3	3632.0	3546.3	3526.7	3541.4
37.5°	11906.6	11882.1	10318.3	6838.1	4505.7	3739.6	3441.0	3308.9	3184.1	3115.6	3117.9
40°	12729.0	12704.5	10621.8	6600.6	4067.6	3465.5	3179.1	3005.4	2851.2	2726.4	2738.6
42.5°	13654.0	13509.6	10766.1	6260.5	3695.5	3233.1	2966.2	2731.3	2528.2	2413.2	2420.4
45°	14664.8	14339.3	10763.6	5827.2	3382.3	3020.1	2738.6	2405.8	2217.4	2109.7	2104.7
47.5°	15736.8	15132.3	10631.5	5347.5	3078.8	2785.1	2386.2	2131.7	2006.8	1940.8	1926.1
50°	16843.0	15873.9	10406.3	4796.9	2768.0	2518.4	2165.9	1992.2	1896.8	1835.6	1813.5
52.5°	17883.2	16546.9	10134.7	4172.8	2452.3	2259.0	2068.0	1933.5	1833.1	1764.5	1735.2
55°	18849.9	17126.9	9750.4	3534.1	2195.3	2085.2	2021.5	1909.0	1794.0	1713.2	1681.4
57.5°	19708.9	17503.8	9087.2	2934.5	2011.8	1965.2	1972.6	1867.3	1735.2	1666.6	1622.7
60°	20423.5	17780.4	8105.8	2378.9	1862.4	1847.8	1896.8	1789.0	1634.9	1556.6	1522.3
62.5°	20851.9	17775.4	6901.6	1948.1	1735.2	1740.1	1796.4	1691.1	1534.5	1461.1	1439.1
65°	20815.2	17339.8	5580.1	1666.6	1612.8	1617.8	1691.1	1583.4	1451.3	1407.2	1404.8
67.5°	20078.5	16277.6	4280.5	1483.2	1478.3	1500.3	1585.9	1510.0	1399.9	1395.0	1402.4
70°	18083.9	14072.5	3083.7	1336.3	1338.8	1370.5	1483.2	1463.5	1373.0	1382.8	1380.4
72.5°	14500.9	10729.4	2070.5	1182.1	1184.6	1235.9	1385.2	1426.8	1346.0	1475.8	1495.4
75°	9657.4	6691.2	1331.4	1018.1	1020.6	1086.6	1299.6	1355.9	1272.6	1470.9	1483.2
77.5°	4640.3	3007.9	964.3	856.6	856.6	917.8	1123.4	1213.9	1084.2	1143.0	1047.4
80°	1603.0	1130.7	758.7	690.1	675.5	717.1	947.1	1052.4	934.9	861.5	807.6
82.5°	631.4	587.3	609.4	536.0	487.1	513.9	736.7	868.8	687.7	621.7	619.2
85°	362.2	381.8	430.7	354.9	281.5	315.7	540.9	624.1	518.9	457.7	467.5
87.5°	97.9	134.6	198.2	183.6	127.3	134.6	257.0	345.1	298.6	230.0	237.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)